



Program Overview

Target Age Group: 12 years old

Duration: 5 weeks

Focus Area: Sustainable Resource Management

Learning Environment: Classroom and Field-based

Program Objectives

- Develop understanding of resource management principles
- Foster environmental awareness and responsibility
- Build practical skills in sustainable living
- Encourage community engagement and leadership
- Promote critical thinking and problem-solving abilities

Core Components

Theoretical Learning

- Resource fundamentals
- Sustainability principles
- Environmental impact
- Conservation strategies

Practical Application

- Field investigations
- Community projects
- Data collection
- Solution development

Module 1: Understanding Resources

Learning Activities

- Resource classification exercise
- Consumption tracking project
- Renewable vs. non-renewable resources study
- Personal resource audit

Field Activities

- Local environment survey
- Resource mapping exercise
- Community resource inventory
- Waste audit project

Module 2: Conservation Strategies

Classroom Activities

- 3Rs workshop (Reduce, Reuse, Recycle)
- Energy conservation experiments
- Water saving techniques
- Sustainable living planning

Practical Applications

- School recycling program
- Energy monitoring project
- Water conservation campaign
- Waste reduction challenge

Teaching Methodologies

- **Inquiry-based Learning:** Students investigate real-world environmental challenges
- **Project-based Learning:** Development of sustainable solutions
- **Collaborative Learning:** Team projects and group investigations
- **Experiential Learning:** Hands-on activities and field work
- **Design Thinking:** Problem-solving and solution development

Assessment Strategy

Formative Assessment

- Project portfolios
- Field observation records
- Group presentation evaluations
- Peer assessment activities

Summative Assessment

- Final project presentation
- Environmental action plan
- Resource management proposal
- Community impact report

Expected Outcomes

- Enhanced environmental awareness
- Developed sustainable living skills
- Improved problem-solving abilities
- Strengthened community engagement
- Practical conservation experience

Teaching Resources

Classroom Materials

- Lesson presentation slides
- Activity worksheets
- Assessment rubrics
- Project guidelines

Field Equipment

- Data collection tools
- Measurement instruments
- Recording devices
- Safety equipment

Support Systems

Teacher Support

- Professional development resources
- Lesson planning templates
- Assessment tools
- Technical guidance materials

Student Support

- Learning guides
- Online resources
- Project templates
- Reference materials

Community Engagement

- Parent information packages
- Community project guidelines
- Partnership frameworks
- Communication templates
- Event planning resources

Weekly Schedule

Week 1: Introduction and Foundations

- Program orientation
- Basic concepts introduction
- Initial assessments
- Team formation

Week 2-3: Core Learning Phase

- Theoretical concepts
- Practical activities
- Field investigations
- Project development

Week 4-5: Application and Assessment

- Project completion
- Presentations
- Final assessments
- Community showcase

Program Evaluation

- Student learning outcomes assessment
- Program effectiveness evaluation
- Teacher feedback collection
- Community impact assessment
- Future recommendations development